



DH-IPC-HDBW5842R-ASE

8MP IR Fixed-focal Vandal-proof Dome WizMind Network Camera







Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

Driven by deep learning algorithms, Dahua WizMind S Series network camera offers a variety of intelligent functions that greatly improve the accuracy of audio and video analysis. It supports video metadata, smart sound detection, face detection, perimeter protection, people counting and more. The camera also adopts advanced image processing AI-Powered Image technology and has the Deeplight night vision effect. The camera is dustproof, waterproof and vandal-proof, and is certified as IP67 and IK10 (the type of protection varies depending on the model).

Functions

AI-Powered Image

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

Smart Sound Detection

With deep learning algorithms, Dahua Smart Sound Detection technology can detect and identify the sound of screams, glass breaking, and more.

- * The parameters and datasheets below can only be applied to 5842-ASE-S3 series.
- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840×2160) @25/30fps
- Built-in IR LED, and the max. illumination distance is 50 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- With deep learning algorithm, it supports: video metadata, smart sound detection, IVS, face detection, smart object detection, and people counting, etc.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 512 GB Micro SD card, built-in MIC.
- 12 VDC/PoE power supply; ePoE.
- IP67 and IK10 protection.
- SMD 3.0.













People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs reports to meet your requirements.

Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

Protection (IP67, IK10, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification							Smart Object Detection	Smart abandoned object; smart missing object
Camera							SMD	SMD 3.0
Image Sensor		1/1.8" CMOS						Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.
Max. Resolution		3840 (H) × 2160 (V)				AcuPick		
ROM		4 GB					AISSA	Yes
RAM		2 GB				Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face, one-inch photo or custom; snapshot strategies (real-time	
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination		0.0008 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)						snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting. Tripwire people counting, generating and exporting
S/N Ratio		>56 dB					People Counting	report (day/week/month/year); people counting in area and queue management, generating and exporting report (day/week/month); 4 rules can be set for tripwire,
Illumination	Illumination Distance		Up to 50 m (164.04 ft) (IR)				Hoat Man	people counting in area and queue management.
Illuminator (On/Off Control	Auto; Manual					Heat Map	Yes Motor vehicle, non-motor vehicle, face, human body
Illuminator I	Illuminator Number							detection; track; snapshot; snapshot optimization; optimal face snapshot upload.
Angle Adjustment		Pan: 0°-355° Tilt: 0°-80° Rotation: 0°-355°					Video Metadata	Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes: seatbelt, smoking, calling. Non-motor vehicle attributes: type, color, number of
Lens								people, top type and color, hat. Human body attributes: gender, top/bottom type and color, bag, hat and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard.
Lens Type		Fixed-focal						
Lens Mount		M12						Work together with Smart NVR to perform refine
Focal Length	h	2.8 mm; 3.6 mm; 6 mm					Smart Search	intelligent search, event extraction and merging to event videos
Max. Aperture		F1.6					Smart Sound Detection	Yes
Field of Viev	N	2.8 mm: H: 110°; V: 57°; D: 134° 3.6 mm: H: 87°; V: 49°; D: 99°					Video	
TICIO OI VICW		6 mm: H: 60°; V: 35°; D: 68°					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Iris Control		Fixed					Smart Codec	Smart H.265+; Smart H.264+
Close Focus Distance		2.8 mm: 1.9 m (6.23 ft) 3.6 mm: 2.3 m (7.55 ft)					AI Coding	AI H.265; AI H.264
ciose i odus	2.50000	6 mm: 4.0 m (13.12 ft)						Main stream: 3840 × 2160@(1–25/30 fps)
	Lens	Detect	Observe	Recognize	Identify		Video Frame Rate	Sub stream: D1@(1-25/30 fps) Third stream: 1080p@(1-25/30 fps) Fourth stream: 720p@(1-10 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
	2.8 mm	89.2 m (292.65 ft)	35.7 m (117.13 ft)	17.8 m (58.40 ft)	8.9 m (29.20 ft)			
	3.6 mm	98.0 m (321.52 ft)	39.2 m (128.61 ft)	19.6 m (64.30 ft)	9.8 m (32.15 ft)		Stream Capability	4 streams
DORI Distance	6 mm	140.0 m (495.32 ft)	56.0 m (183.73 ft)	28.0 m (91.86 ft)	14.0 m (45.93 ft)			8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728); 5M (2592 × 1944); 4M (2688 × 1520); 3.6M (2560 ×
	(EN-62676-4) t video to distin	ORI (Detect, Observe, Recognize, Identify) is a standard system -62676-4) for defining the ability of a person viewing the to to distinguish persons or objects within a covered area. The objects in this table do not reflect intelligent function distances.					Resolution	1440); 3M (2048 × 1535); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
	For intelligent	numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.					Bit Rate Control	CBR/VBR
Intelligence						Video Bit Rate	H.264: 32 kbps –16384 kbps H.265: 12 kbps –13568 kbps	
EPTZ		Yes					Day/Night	Auto(ICR)/Color/B/W
IVS (Perimeter Protection)		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection					BLC	Yes
							HLC	Yes

WDR	120 dB			
Scene Self-adaptation (SSA)	Yes			
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom			
Gain Control	Auto			
Noise Reduction	3D NR			
Motion Detection	OFF/ON (4 areas, rectangular)			
Region of Interest (RoI)	Yes (4 areas)			
Smart Illumination	Yes			
Defog	Yes			
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M (2688 \times 1520) resolution and lower)			
Mirror	Yes			
Privacy Masking	8 areas			
LDC	Yes (only 2.8mm/3.6mm supports)			
Audio				
Built-in MIC	Yes			
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723			
Alarm				
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; face detection; video metadata; SMD; people counting in area; stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception			
Network				
Network Port	RJ-45 (10/100 Enhancement Base-T)			
SDK and API	Yes			
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2P			
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI			
User/Host	20 (Total bandwidth: 80 M)			
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS			
Browser	IE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and later			
Management Software	SmartPSS Lite; DSS; DMSS			
Mobile Client	iOS;Android			
Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification			

Certification	
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14
Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: wet contact, 5mA 3V–5V DC
Alarm Output	1 channel out: wet contact, 300mA 12V DC
Power	
Power Supply	12 VDC/PoE (802.3af)/ePoE
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.
Power Consumption	Basic: 4.1 W (12 VDC); 5.2 W (PoE) Max. (H.265 + WDR+ Intelligence on + IR on): 6.8 W (12 VDC); 8.8 W (PoE)
Environment	
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	10%–95% (RH), non-condensing
Protection	IP67; IK10
Structure	
Casing Material	Metal
Product Dimensions	94.0 mm × Φ122.0 mm (3.70" × Φ4.80")

Ordering Information						
Туре	Model	Description				
8MP	DH-IPC-HDBW5842R-ASE	8MP IR Fixed-focal Vandal-proof Dome WizMind Network Camera				
Camera	IPC-HDBW5842R-ASE	8MP IR Fixed-focal Vandal-proof Dome WizMind Network Camera				
	PFA137	Junction Box				
	PFB206W	Wall Mount Bracket				
	PFA109	Mount adapter				
Accessories	PFB220C	Ceiling Mount Bracket				
(Optional)	PFA156	Pole Mount Bracket				
	PFM321D	12 VDC 1 A Power Adapter				
	PFM900-E	Integrated Mount Tester				
	TF-P100	MicroSD Memory Card				

712.9 g (1.57 lb)

986 g (2.17 lb)

Net Weight

Gross Weight

Accessories

Optional:





PFA137 Junction Box



PFB220C Ceiling Mount Bracket



PFM900-E Integrated Mount Tester



PFB206W Wall Mount Bracket



PFA109 Mount adapter



PFM321D 12 VDC 1 A Power Adapter

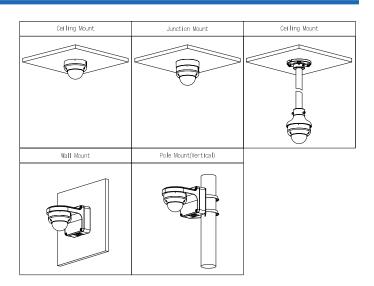


PFA156

Pole Mount

Bracket

TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

